VSC 900 & VSC 900D

TWO INPUT HIGH-RESOLUTION
COMPUTER-TO-VIDEO SCAN CONVERTERS

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VSC 900D

The Extron VSC 900 and VSC 900D two input high-resolution, computer-to-video scan converters offer a combination of superior processing, an advanced feature set, and value. Innovative technologies incorporated into the scan conversion engine improve video performance and enhance video output for high-end, integrated systems that require a variety of input signal formats.

- Two RGBHV inputs and three simultaneous outputs as composite video, S-video, and component video or RGB video
- Autoscanning up to 1600 x 1200
- Auto-Image[™] setup
- Eight horizontal filters and four vertical (flicker) filters
- **■** Genlocking capability
- **■** Chroma attenuation
- Sizing & centering controls
- Zoom control with eight presets
- 60 factory presets and 16 auto memory locations
- Freeze function
- Internal test pattern generator
- IR and RS-232/RS-422 remote control
- **■** Optional SDI digital output



DESCRIPTION

The Extron VSC 900 and VSC 900D two input high-resolution, computer-to-video scan converters combine superior processing with an advanced feature set, including both BNC RGB and 15-pin HD inputs with loop-through outputs for easy integration. In addition, the VSC 900D offers an SDI digital output.

The VSC 900 and VSC 900D accept computer images at resolutions up to 1600 x 1200 and output a scan converted signal as composite video, S-video, component video, and/or RGB video. Both models are designed to be integrated into high-end broadcast facilities and other demanding production, training and presentation environments as they offer exceptional output quality, the ability to genlock to an external blackburst signal and optional SDI output. Other applications include videoconferencing, video recording, and viewing images on an NTSC or PAL monitor or other display device.

FEATURES

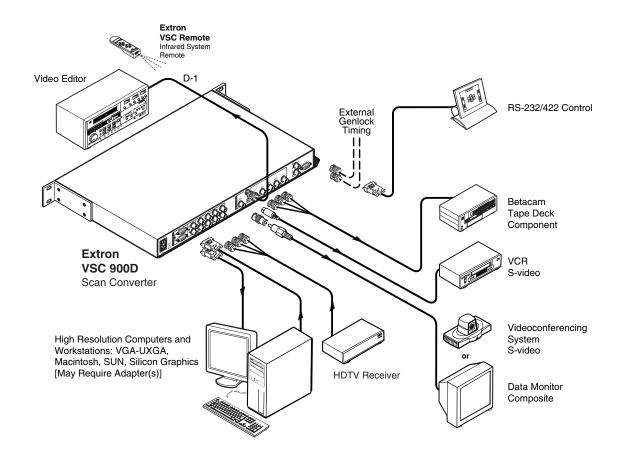
- Autoscanning Automatically recognizes and converts the incoming computer image, up to 1600 x 1200 resolution, 100 kHz horizontal, and 120 Hz vertical scan rates.
- Integration-friendly inputs Input one is on female BNC connectors, eliminating the need for adapter cables and offering the proven reliability of BNC connections. A second input is offered on a 15-pin HD female VGA connector. Adapters are available for MAC inputs.
- Buffered loop-throughs Provides for local monitor outputs on both BNC connectors and a 15-pin HD female VGA connector, enabling a signal to be easily monitored or distributed without using a distribution amplifier.
- Auto-Image™ setup A press of a button automatically adjusts the sizing, centering, and filtering to optimize the output image. This can save an enormous amount of time and effort in finetuning displayed images.
- Three simultaneous outputs NTSC or PAL video is output as RGBHV, RGBS, RGsB, or component video, S-video, and composite video.
- Optional SDI output (VSC 900D only) A digital 4:2:2 output is available for incorporating digital video devices into environments such as video production studios, non-linear editing suites, staging events, and video broadcast studios.
- Chroma attenuation Chroma attenuation is an ideal feature for broadcast environments where colors in logos and images must be set at 75% saturation for transmission. The VSC 900 and VSC 900D have the ability to attenuate an input signal down to the correct output level, eliminating the need to recreate the image and/or content.
- Input memory presets Allow the scan converter to automatically recall up to 16 user presets, 60 factory presets, and eight zoom presets, accessible via RS-232 or the included IR remote. Each memory location stores filter, size, centering, and/or zoom settings for a source that can be instantaneously recalled during a presentation.
- High quality zooming and panning The VSC 900 models feature variable zoom up to 200% and allow panning across the screen. User-friendly positioning, including centering and sizing, is accessible through the front panel for quick and efficient image setup.
- Horizontal filtering There are eight horizontal filters selectable through the front panel LCD navigation menus to enhance and stabilize the final scan rate converted video image. Horizontal filtering prevents anti-aliasing or pixel elimination so that less detail is dropped when the television scans from left to right.

FEATURES (CONT.)

- Vertical (flicker) filtering The VSC 900 and 900D have four vertical (flicker) filter settings selectable through the front panel LCD navigation menus. Vertical (flicker) filtering provides line averaging so that before the scan converter eliminates lines in the down conversion process, it fills in missing information. By filling in averaged information, the scan converter helps to maintain vertical detail and eliminate picture flicker.
- Freeze button The input of the VSC 900 and VSC 900D can be frozen using the freeze button on the front panel or RS-232. This feature allows the scan converter to capture a frame of video to display for an extended period of time, even after the source has been removed.
- Genlock A necessary feature for broadcast or production environments, genlocking is the process of synchronizing all video devices for the purpose of pixel switching and chroma keying of computer overlays. A specific type of genlocking, known as chroma lock, refers to the synchronization of the sync signals and chroma. This allows the signals to be edited and composed to make a complete segment without any kind of distortion, glitch, or signal irregularity.
- Internal test pattern generator The VSC 900 and VSC 900D offer four test patterns for quick and easy monitor set-up: Color Bars, 32x32 crosshatch, 4x4 crosshatch, and gray scale.
- RS-232/RS-422 remote control A rear panel RS-232/RS-422 control port provides easy operation of the VSC 900 scan converters utilizing Extron's Simple Instruction Set (SIS™) of basic ASCII code.
- Downloadable firmware Updated firmware can be conveniently downloaded from the Extron Web site. Changes to features and capabilities can be easily upgraded through the RS-232/RS-422 port.
- Executive Mode Ideal for unsecured environments, executive mode enables the user to lock out all front panel functions except for centering controls; all other functions remain active through RS-232/RS-422.
- Flexible mounting options The VSC 900 models are housed in 1U high, half rack width metal enclosures that can be mounted under or through a desk or in a rack.
- International internal power supply The 100-240VAC, 50/60 Hz, auto-switchable, internal power supply provides worldwide power compatibility.
- VSC Remote The included Extron VSC Remote provides infrared remote control for the VSC scan converters. It performs most front panel functions such as image freeze, zoom in and out, size and shift both horizontally and vertically, adjust the vertical filters, and set presets.



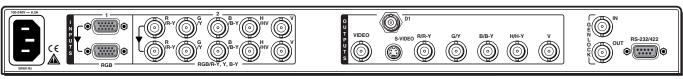
APPLICATION DIAGRAM



PANEL DRAWINGS



VSC 900D Front



VSC 900D Back



Extron Electronics, USA 1230 South Lewis Street Anaheim, CA 92805 800.633.9876 714.491.1500 FAX 714.491.1517 Extron Electronics, Europe Beeldschermweg 6C 3821 AH Amersfoort, The Netherlands +800.3987.6673 +31.33.453.4040 FAX +31.33.453.4050 Extron Electronics, Asia 135 Joo Seng Rd. #04-01 PM Industrial Bldg., Singapore 368363 +800.7339.8766 +65.6383.4400 FAX +65.6383.4664 Extron Electronics, Japan Daisan DMJ Bldg. 6F, 3-9-1 Kudan Minami Chiyoda-ku, Tokyo 102-0074 Japan +81.3.3511.7655 FAX +81.3.3511.7656

Number/signal type	R
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